

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002065320014-8

DELONG, A.; DRAHOS, V.; ZOBAC, L.

Electron microscope with high resolving power. Cs cas fys
12 no.5/6:471-478 '62.

1. Ustav pristrojove techniky, Ceskoslovenska akademie ved,
Laborator elektronove optiky, Brno.

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002065320014-8"

ZOBAC, Ladislav, inz.

Current stabilization by a circuit with negative differential resistance. Slaboprcudy obzor 24 no.2:89-94 F '63.

1. Ustav pristrojove techniky, Ceskoslovenska akademie ved,
Brno.

17.11.06

45755

S/194/62/000/012/042/101
D413/D308

AUTHORS: Zobáč, Ladislav and Špecialný, Jan

TITLE: An air valve

PERIODICAL: Referativnyj zhurnal, Avtomatika i radioelektronika
no. 12, 1962, 7, abstract 12-3-14 b (Czech. pat., cl.
21g, 37/10, no. 99381, Apr. 15, 1961)

TEXT: An air valve is proposed, designed particularly for vacuum systems, in which the seal is made up of two plates mounted one above the other, fixed to a common shaft and performing a to-and-fro movement in the vertical direction. When the shaft moves downwards (as a result of the screwing of a nut to which the top end of the shaft is fixed), the lower plate hermetically seals a port in the outlet manifold of the system being pumped out, which is joined to the bottom end of the valve body. At the same time the upper plate closes a port in a transverse partition in the valve separating the equalization chamber, which is located in the upper part of the pump, from the lower part of the body. Thus the system

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An air valve

8/194/62/000/012/042/101
D413/D308

being exhausted is isolated from the pump. To connect the system being exhausted to the pump, the shaft (and both plates with it) is raised by screwing the nut at the top of the valve body to the left, so that the port in the system's outlet manifold is opened and air from the system can pass into the inlet manifold of the pump, fixed to the side wall of the valve body. A convenient opening of the valve is obtained by the equalization chamber having a constantly open connexion with the manifold of the system being exhausted, so that the pressures above the upper plate and below the lower plate are always the same. In comparison with ball-valves this design has smaller dimensions for the same working capacity, and does not require careful maintenance. /^V Abstracter's note:
Complete translation. /

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CIA-RDP86-00513R002065320014-8"

ACCESSION NR: AP4015899

Z/0039/61/025/001/0034/0039

AUTHOR: Veprek, Jaroslav (Engineer, Candidate of sciences); Zobac, Ladislav
(Engineer, Candidate of sciences)

TITLE: A thermistor vacuum gauge

SOURCE: Slaboproudý obzor, v. 25, no. 1, 1964, 34-39

TOPIC TAGS: thermistor, vacuum gauge, gas pressure, vacuum measurement, pressure measurement, bead-type thermistor

ABSTRACT: An analysis is made of the dependence of a bead-type thermistor on the gas pressure, with the purpose of producing equations suitable for designing new thermistor vacuum gauges. At an atmospheric pressure $p_0 = 760 \text{ mm Hg}$ the gas has a heat conductivity $\lambda = \lambda_p$ and the resistance of the thermistor is $R = R_p$ (B in the graph in Fig. 2 of Enclosure 01). If the pressure drops, the heat conductivity declines causing a drop in the thermistor resistance. When pressure reaches the critical point $p_k = 10^{-3} \text{ mm Hg}$ the heat conductivity is

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ACCESSION NR: AP4015899

$\lambda = \lambda_k$ and resistance $R = R_k(\lambda$ in the graph). The change in the dependence $R = f(\ln p)$ in the bead-type thermistor is shown in the graph. If pressure is $p \gg p_k$, then the equation for practical uses has the following form:

$$\Delta R_p = \Delta R_{po} \cdot \sqrt{\frac{e^{hp}}{w + e^{hp}}}.$$

The constant $w = f(\lambda p)$ has a considerable influence on the function $\Delta R_p = f(\ln p)$ and is equal to 0.8 in thermistors in Table 1 of Enclosure 02. The change in the pressure ΔR_{po} caused by the change of atmospheric pressure is then

$$\Delta R_{po} = \Delta R_{pk0} \cdot \sqrt{\frac{e^{hp}}{0.8 + e^{hp}}}.$$

The graphic expression of the function $\Delta R_{po}/\Delta R_{pk0} = f(\ln)$ is shown in

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ACCESSION NR: AP4015899

Fig. 3 of Enclosure 03. The dependence of the changes in the resistance ΔR_{pk} of the bead-type thermistor on the temperature and heat conductivity of gases is then

$$\Delta R_{pk} = 0.087 \cdot R_0 \cdot \beta_{po} \cdot \frac{1}{\sqrt{\lambda_p}} \cdot \frac{(1 - 0.01\delta)}{0.0013 - \delta}.$$

[$\Omega; {}^\circ C$, kcal/m.h.°C]

where β_{po} is $\Delta R_{pk}/R_0$, δ temperature, and λ_p heat conductivity. For air ($\lambda_p = \lambda_{po} = 0.02$ kcal/m.h.degree centigrade) the equation takes the following form:

$$\Delta R_{pk} = 0.62 \cdot R_0 \cdot \beta_{po} \cdot \frac{(1 - 0.01\delta)}{0.0013 - \delta} \cdot [\Omega; {}^\circ C]$$

Two thermistors of the NROSA series, developed by the VUST, Prague, are described, one with a resistance of 7.7, the other with 96 k-ohms. A cross section and circuit diagram of the thermistor vacuum gauge are shown in Figs. 6 and 8 of Enclosures 04 and 05. The instrument described is said to be easier to

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ACCESSION NR: AP4015899

manufacture than Pirani's vacuum gauge, and yields the same results. Orig. art.
has 11 figures, 16 formulas, and 1 table.

ASSOCIATION: Ustav pristrojove techniky CSAV, Brno (Institute for Instruments
Technology, CSAV)

SUBMITTED: 27Aug63

SUB CODE: GE, PH

DATE ACQ: 03Feb64

NO REF Sov: 000

ENCL: 05

OTHER: 018

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"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002065320014-8

VEPREK, Jaroslav, inz. CSc.; ZOBAČ, Ladislav, inz. CSc.

Thermistor vacuum gauge. Slatoproudý obsor 25 no.1:34-39
Ja'64.

l. Ustav pristrojove techniky, Československa akademie ved,
Brno.

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002065320014-8"

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002065320014-8

DELONG, Armin, inz.; DRAHOS, Vladimir, inz.; SPECIALNY, Jan; ZOBAC,
Ladislav, inz.

An experimental high-resolving-power electron microscope. Slaboproudny
obzor 21 no.4:195-206 Ap '60.
(Electron microscope)

(EEAI 9:8)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002065320014-8"

Zobac, L.

Zobac, L. Notes on the problem of vacuum division; contribution to a discussion. p. 516.

Vol. 17, no. 9, Sept. 1956
SLABOPROUDY OBZOR
TECHNOLOGY
Czechoslovakia

So. East European Accessions, Vol. 6, May 1957
No. 5

470030212

SOURCE CODE: CIA/0039/66/027/003/0155/0159

AUTHOR: Zobac, Ladislav--Zobach, L. (Engineer; Candidate of sciences); Jelinek, Josef--Yellnek, Ya. (Engineer)

ORG: Institute of Instrumental Engineering, CSAV, Brno (Ustav pristrojove techniky
CSAV)

TITLE: Phototransistor relay ✓

SOURCE: Slaboproudny obzor, v. 27, no. 3, 1966, 155-159

TOPIC TAGS: phototransistor, electric relay, electron microscope

ABSTRACT: The article describes the design and properties of a phototransistor circuit which responds to a change of illumination by the operation or release of an electromagnetic relay. The design of the relay is briefly described and experience in its use to automatically control pumping operations in the vacuum system of an electron microscope is reported. Orig. art. has: 9 figures. [Based on authors' Eng. abst.] [JPRS: 36,644]

SUB CODE: 09 / SUBM DATE: 12Apr65 / ORIG REF: 002

43B

UDC: 621.318.57: 621.383.004

Card 1/1 R3

ZOBACHEV, I.G.; UGRENINOV, N.G.; PROTOPOPOV, N.N.; ZHUKOVSKIV, N.I.;
KHERAMOV, A.S.; RYABOV, I.S.; LAZOVNIKOV, M.A., tekhn. red.

[The city of Novosibirsk and Novosibirsk Province] Gorod Novo-
sibirsk i Novosibirskaia oblast'. Novosibirsk, Novosibirskoe
oblastnoe upravlenie "Poligrafizdat," 1948. 165 p.

(Novosibirsk) (Novosibirsk Province) (MIRA 16:1)

MAKAROV, N.; VALIOTTI, B. (g. Arkhangel'sk); ZOBACHEV, K. (g. Magadan)

Letters and correspondence. Sov. profsoiuzy 17 no.13:22-23
Jl '61.

(MIRA 14:7)

1. Litsotrudnik mnogotirazhnoy gazety "Za doblesennyj trud" (for
Makarov). 2. Neshtatnyye korrespondenty zhurnala "Sovetskiye
profscyuzy" (for Valiotti, Zobachev).

(Trade unions)

BELOUsov, V., pensioner; GONCHARENKO, V., tekhnicheskiy inspektor;
ZOBACHEV, K.; MANAFOV, G.; KOLOGRIV, P.; KABAKOV, Yu., instruktor

We suggest, study and confer. Sov. profsoiuzy 17 no.24:17-18
D '61.

(MIRA 14:12)

1. Oblastnoy komitet profsoyuza rabcchikh metallurgicheskoy
promyshlennosti, g. Magadan (for Zobachev). 2. Zaveduyushchiy
otdelom truda i zarabotnoy platy Azerbaydzhanskogo soveta prof-
soyuzov (for Manafov). 3. Neshtatnyy korrespondent zhurnala
"Sovetskiye profsoyuzy", g. Khabarovsk (for Kologriv). 4.
(for Kabakov).

(Industrial hygiene) (Trade unions)

ZORACHEV, N.M.

Design of a self-recording device for measuring the settling
of stamps in testing soils using experimental static loads.
[Trudy] NIIOSP no.42:123-125 '60. (MILIA 13:6)
(Soil mechanics)

KRUGLOV, I.N.; ZOBACHEV, N.M.; GALITSKIY, V.G.; ROZENTAL', A.I.

Automated unit used for testing soils by means of test loads.
[Trudy] NIIOSP no.33:84-99 '58.
(Testing machines) (Soil mechanics) (MIRA 11:9)

KROPACHEV, A.M.; ZOBACHEV, V.A.

Luminescence of gypsum. Nauch.dokl.vys.shkoly; geol.-geog.nauki
no.1:195-197 '59.
(MIRA 12:6)

1. Permskiy universitet, geologicheskiy fakultet, kafedra mineralo-
gii i petrografii.
(Gypsum)

BARDINA, V.; ZORACHEV, Yu.; KUZNETSOV, V.; SHCHEGOLEV, P.; STRUMPE, P.I., kand.
tekhn.nauk, otv.red.; ARAKELOV, V.M., nauchnyj red.; PRISMAN, D.Ya., red.;
FRISHMAN, Z.S., red.izd-va; KOTLYAKOVA, O.I., tekhn.red.

[Protection of tanks used on oil tankers] Protektornaya zashchita
tankov neftentalivnykh sudov. Leningrad, Izd-vo Morskoi.transport.
1959. 47 p. (Leningrad. tsentral'nyi nauchno-issledovatel'skii
institut morskogo flota. Trudy no.24) (MIRA 12:5)
(Tank vessels) (Tanks) (Corrosion and anticorrosives)

~~Zobachova, Lukesh~~

YUGOSLAVIA/Organic Chemistry. Natural Compounds and Their
Synthetic Analogs.

G

Abs Jour: Ref Zhur-Khimiya, No 21, 1958, 70930.

Author : Lukesh, Zobachova, Pleshek.

Inst :

Title : The Absolute Configuration in the Citronellal Series.

Orig Pub: Croat. chem. acta, 1957, 29, No 3-4, 201-205.

Abstract: The authors synthesized the following compounds using (+) citronellic acid (I) as the starting material: (+) citronellol (II), (-)-citronellyl bromide (III), (+)-2,6-dimethyloctene (IV), (+) citronellamide (V), (-)-citronell nitrile (VI) methyl ester of I.

Applying a known absolute configuration of citronellal, the authors established that I-III, V and

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YUGOSLAVIA/Organic Chemistry. Natural Compounds and Their
APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065320014-8

Abs Jour: Ref Zhur-Khimiya, No 21, 1958, 70930.

VI belong to the R-series, and IV belongs to the S-series (for the nomenclature see: R Zh. Khim., 1956, 71531). The erroneous data on the rotation of I and VI published previously (Herschmann Ch., Helv. chim. acta, 1949, 32, 2537) have been corrected. Crude pulegone is saturated with HCl (gas) with cooling, is set aside for 12 hours, and then is stirred for 4 hours at 20°C with an excess of 5% NaOH solution. I is separated, it has a boiling point of 112-113°C/0.6 mm, n_{D}^{20} 1.4540, d_{4}^{20} 0.9256, $\alpha_{D}^{20} + 7.78^{\circ}$, $[\alpha]_D^{20} + 8.40$; the methyl ester of I (obtained by the reaction with CH_3N_2 in ether) has a boiling point of 78°C/3 mm, n_{D}^{20} 1.4413, d_{4}^{20} 0.8973, $\alpha_{D}^{20} + 4.97^{\circ}$, $[\alpha]_D^{20} + 5.45^{\circ}$. 110 grams of I and 100

Card : 2/5

YUGOSLAVIA/Organic Chemistry. Natural Compounds and Their
Synthetic Analogs.

G

Abs Jour; Ref Zhur-Khimiya, No 21, 1958, 70930.

grams of V, 20 grams of PCl_5 and 40 ml of CCl_4 is heated. After the exothermic reaction has ceased, the mixture is boiled for one hour, the solvent and POCl_3 are vacuum distilled, and to the reaction product a 10% aqueous NaOH solution is added. The VI is steam distilled, and is isolated in a 62% yield, b.p. $107^\circ\text{C}/15 \text{ mm}$, $n_{D}^{20} 1.4491$, $d_{4}^{20} 0.8483$, $\alpha_{D}^{20} -8.30^\circ$, $[\alpha]_D^{20} -9.78^\circ$. 6.6 grams of I is reduced to II with lithium aluminum hydride (2 grams) in ether (20°C , 5 hours); yield, 94%, b.p. $110^\circ\text{C}/10 \text{ mm}$, $n_{D}^{20} 1.4558$, $d_{4}^{20} 0.8558$, $\alpha_{D}^{20} +4.6^\circ$, $[\alpha]_D^{20} +5.37^\circ$. To a solution of 5 grams of II in 20 ml of petroleum ether and 2.4 ml of pyridine is added 5 grams of Mn_{3} .

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ZOBACHEV, Yu.

USSR /Chemical Technology. Chemical Products
and Their Application
Corrosion. Protection from Corrosion.

H-4

Abs Jour: Referat Zhur - Khimiya, No 1, 1958, 1615

Author : Zobachev Yu., Bershteyn V., Kuznetsov V.

Title : Means of Protecting Inside Surfaces of Tankers
from Corrosion.

Orig Pub: Morsk. flot, 1957, No 4, 15-18

Abstract: A presentation of the results of investigations
of the causes of corrosion damage (CD) to in-
side surfaces and structures of a large number
of foreign tankers. The average magnitude of
CD averages 0.28 mm/year during the first 9
years of operation, and 0.38 mm/year during the

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USSR /Chemical Technology. Chemical Products
and Their Application
Corrosion. Protection from Corrosion.

g-4

Abs Jour: Referat Zhur - Khimiya, No 1, 1958, 1615

subsequent years. During transportation of dark grades of petroleum products the rate of corrosion of the ships is approximately 3 times less than in shipping of light petroleum products. Procedures for the protection of the tankers from corrosion are listed. Tanker structures made from clad stainless steel. The vinyl resin base coatings can be utilized over prolonged periods at temperatures not exceeding 50-60°, or on brief exposures to temperatures of 85-95°. Also effective is a coating of Saran, which is sometimes used with an aluminum powder filler. To enhance the quality of the protective coating use is made of etching primers containing phos-

Card 2/5

USSR /Chemical Technology. Chemical Products
and Their Application
Corrosion. Protection from Corrosion.

H-4

Abs Jour: Referat Zhur - Khimiya, No 1, 1958, 1615

phoric acid. Good results were also obtained with coatings based on epoxy-resins, ethynol- and neoprene lacquers. Other materials that can be used to protect inside surfaces of tankers include coatings having a base of furan- and phenol resins, thiokol, polyamides, etc. On a number of tankers corrosion is controlled by drying the air inside the tanker by means of a "Cargocare" unit. Corrosion inhibitors, which are added to the ballast water, are not utilized at the present time for economical reasons. Among the corrosion inhibiting agents that are added to the cargo the best results were obtained

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USSR /Chemical Technology. Chemical Products
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Corrosion. Protection from Corrosion.

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Abs Jour: Referat Zhur - Khimiya, No 1, 1958, 1615

with "Santolen S". In the washing of surfaces of empty tankers use has been made of a 5% solution of Na_2SiO_3 in fresh water containing 1% (by weight) of NaOH. In the United States and England extensive use is made of cathodic protection, by means of Mg-anodes, for the corrosion control in ballast carrying tankers. A6Z3 alloy has been used for the anodes. In England a 2-step system of protection has been used, in which, during the initial stage, the primary anodes, weighing 60-80 kg each and installed inside the tanker, are supplemented by temporary, additional, anodes of circular

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USSR /Chemical Technology. Chemical Products
and Their Application
Corrosion. Protection from Corrosion.

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Abs Jour: Referat Zhur - Khimiya, No 1, 1958, 1615

shape, by means of which a rapid formation
of a protective calcareous layer on the metal,
is effected.

Card 5/5

ZOBACHEV, Yu.; KUZNETSOV, V.; SHCHERBAKOV, P.

Use of anticorrosive protection for the internal surfaces
of petroleum tank vessels. Mor.flot. 19 no.11:32-34 N '59.
(MIRA 13:3)

1. Nachal'nik laboratorii korrozii TSentral'nogo nauchno-
issledovatel'skogo instituta Morskogo flota (for Zobachev).
2. Starshiye inzhenernye laboratorii korrozii TSentral'nogo
nauchno-issledovatel'skogo instituta Morskogo flota (for
Kuznetsov, Shcherbakov).

(Tank vessels--Cathodic protection)

AUTHORS: Glikman, L.A., Dr. of Technical Sciences, Prof. and Zobachev, Yu. Ye., Candidate of Technical Sciences.
(Central Marine Research Institute).

TITLE: Influence of shot peening on the cavitation resistance of metals tested by means of a magneto-striction vibrator. (Vliyaniye drobestrueynogo naklepa na kavitationsnuyu stoykost' metallov pri ispytanni na magnitostriktsionnom vibratore).

PERIODICAL: "Metallovedenie i Obrabotka Metallov" (Metallurgy and Metal Treatment), 1957, No.5, pp.53-41.(U.S.S.R.)

ABSTRACT: Grossman (2) found that shot peening has a favourable influence on cavitation resistance but his results were not unequivocal. In this paper the results are described of experiments aimed at studying the influence of shot peening on the cavitation resistance of carbon steels containing 0.4 and 0.53% C, on brass and on an austenitic steel. Specimens were made of these materials which were subjected to cavitation tests on a magnetostriction vibrator after shot peening. The depth of the work hardened layer was 0.2 to 0.25 mm for the austenitic steel and 0.1 to 0.15 mm for the brass. The authors did not detect any appreciable influence of shot peening on the cavitation strength. The shot peened surface layer increases somewhat the resistance of the metal to plastic deformation but this increase

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Influence of shot peening on the cavitation resistance of metals tested by means of a magnetostriction vibrator. (Cont.)

is not large enough to reduce appreciably local plastic deformation caused by the mechanical effect of the hydraulic impacts during the collapse of bubbles. The relatively slight increase in the strength of the surface layer does not compensate the adverse influence caused by the decrease in the corrosion stability of the metal. 4 Tables; 5 Russian, 1 American references.

Card 2/2

Ye
ZOBACHEV, Yu., kandidat tekhnicheskikh nauk.; BERSHTEIN, V., inzhener; KUZHETsov, V.

Ways of protecting a tanker's internal surfaces from corrosion.
Mor. flot 17 no.4:15 Ap '57. (MERA 10:4)

1. Tsentral'nyy nauchno-issledovatel'skiy institut morskogo flota.
(Tank vessels) (Corrosion and anticorrosives)

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002065320014-8

GLIKMAN, L., doktor tekhnicheskikh nauk; ZOBACHEV, Yu.

Ways of increasing the life of ship propellers. Mpr.1 rech.flot
14 no.4:20-22 Ap '54. (MLRA 7:5)
(Propellers)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002065320014-8"

ZOBACHEV, Yu.Ye.

GLIKMAN, L.A., doktor tekhnicheskikh nauk; ZOBACHEV, Yu.Ye., inzhener.

Ways to increase the life of a ship's propeller shaft.
Trudy TSNIIIF no.28:3-44 '54. (MLRA 9:1)

(Shafts and shafting) (Corrosion and anticorrosives)

ZOBACHEV, Yu, Ye.

GLIKMAN, L.A., doktor tekhnicheskikh nauk; TEKHT, V.P., kandidat tekhnicheskikh nauk; ZOBACHEV, Yu.Ye., inzhener.

Problem of the physical nature of cavitation breakdown. Trudy TSNIEF no.28:45-59 '54.

(Cavitation) (Metallography)

ZOBACHEV, YU. YE.

FD-3045

USSR/Physics - Cavitation

Card 1/2 Pub. 153 - 14/23

Author : Glikman, L. A.; Tekht, V. P.; Zobachev, Yu. Ye.

Title : Problem of the physical nature of cavitation destruction

Periodical : Zhur. tekhn. fiz., 25, February 1955, 280-298

Abstract : The authors state that although there are many works (e.g. I. M. Metter, Usp. fiz. nauk, 35, No 1, 1948; I. N. Voskresenskiy, Korroziya i eroziya sudovykh grebnykh vintov [Corrosion and erosion of ships' screw propellers], Ship Industry Press, 1949; M. O. Kornfel'd, Uprugost' i prochnost' zhidkostey [Elasticity and stability of fluids], GITGL, 1951; V. A. Konstantinov, Dokl. AN SSSR, 4, No 3, 1947) there are no generally accepted ideas as to the physical nature of cavitation destruction and as to the mechanism governing the occurrence of this process. They present new experimental data in an investigation of the surface layer of specimens subjected to cavitation action in a magnetostriction vibrator in initial or earlier stages of destruction; they employed microstructure and x-ray analysis and also microhardness measurement,

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FD-3045

Abstract : namely on various steels, brass, and nonferrous alloys. They claim that their results permit sharpening existing concepts of cavitation destruction; they present photographs and detailed conclusions (e.g. establishment of plastic deformation in the surface layer etc.). Nine references: e.g. L. A. Glikman, *Ibid.*, 7, 14, 1434, 1937.

Institution : -

Submitted : May 16, 1954

L 40256-66	SHT(m)/EXP(t)/ETI	IJP(G)	JPP(W)
ACC NR: AP6019900	(N)	SOURCE CODE: UR/0145/65/000/012/0112/0116	
AUTHOR: <u>Zamoruyev, V. M.</u> (Doctor of technical sciences, Professor); <u>Zobachev, Yu. Ye.</u> ; <u>Kartyshov, A. V.</u> (Candidate of technical sciences); <u>Vysotskiy, A. A.</u> (Engineer)			
INST: <u>Leningrad Institute of Water Transport</u> (Leningradskiy Institut vodnogo transporta)			
TITLE: The effect of alloying elements on cavitation resistance of chrome-manganese steel			
SOURCE: IVUZ. Mashinostroyeniye, no. 12, 1965, 112-116			
TOPIC TAGS: alloy, alloy steel, alloy composition, chromium, manganese, cavitation, marine equipment, sea water corrosion			
ABSTRACT: The cavitation resistance of various grades of steel is studied as a function of concentration of <u>chromium</u> , <u>manganese</u> and other elements and an optimum steel composition is selected for marine propeller screws. Experimental smelting was done in a high frequency induction furnace. All specimens were heated to 1100-1150°C, depending on carbon content. The specimens were heated for 20 minutes and then cooled in quiet air. Cavitation resistance was studied on a magnetostrictive vibrator at a frequency of 8 kc. The working surfaces of the specimens were polished. All experimental work was done under synthetic marine conditions for a period of three hours.			
UDC: 620.193.16			

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L 40256-56

ACC NR: AP6019900

Z

The samples were weighed every hour. The results show that cavitation resistance of chrome-manganese steel is improved when chromium content is increased to 13.5%. When chrome content exceeds 14.0%, cavitation resistance is reduced. Optimum chrome content is 12.0-14.0%. Chrome-manganese steel containing 7.0-9.0% manganese has maximum cavitation resistance, which is reduced by any further addition of manganese. Increasing the carbon content of chrome-manganese steel to 0.38-0.40% also increases cavitation resistance, although ductility and workability are adversely affected. Silicon is necessary for holding ductility at the required level. ¹Silicon content should not exceed 1.0%. The addition of 0.05-0.1% titanium improves the strength properties of the steel by reducing grain size. Resistance to cavitation is also improved. The following composition is optimum for steel used in marine propeller shafts working under cavitation-producing conditions: C--0.20-0.28%, Si--0.5-1.0%, Mn--7.0-9.0%, Cr--12.0-14.0%, Ti--0.02-0.05%. The results also show that chrome-manganese steel with a chromium content of 12% or more is corrosion-resistant in sea water. Sulfur was added to improve machining characteristics. 0.1% sulfur does not reduce the resistance to cavitation or the mechanical properties of chrome-manganese steel. Orig. art. has: 3 figures, 1 table.

SUB CODE: 11/ SUBM DATE: 29May64

Card 212 MLP

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002065320014-8

VYSOTSKIY, A.F., LINTS, BORATEV, YU.V., KURD. SOKHIN, D.S.

Protection of materials from cavitation damage using anticoagulants.
Soviet Inventor's Certificate No. 474,726. Ap. 1975. (M. 26 1816)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002065320014-8"

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002065320014-8

VYSOTSKIY, A.A.; ZOBACHEV, Yu.Ye., kand. tekhn. nauk

Cavitation resistance of materials in media with various additives.
Trudy TSNIIMF 57:43-50 '64.

(MIRA 18;2)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002065320014-8"

VYSOTSKIY, A., mladshiy nauchnyy sotrudnik; ZOBACHEV, Yu. P., kand. tekhn. nauk
KOSTROV, Ye., kand. tekhn. nauk, starshiy nauchnyy sotrudnik

Selecting anticorrosive additives for the cooling water of marine
internal combustion engines. Mor. flot 25 no. 3126-38. Mr 165.
(MIRA 18-4)

1. Tsentral'nyy nauchno-issledovatel'skiy institut morskogo flota
(for Vysotskiy).

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002065320014-8

VYSOTSKIY, A. A.; VINOGRADOV, V. I.; ZOBACHEV, Yu. Ye.; PUCHKIN, A. V.

Preventing the corrosion of cooling jackets on marine
internal combustion engines. Inform.sbor.TSNIIMF no. 87
Tekh.ekspl. mor.flota no. 20:57-82 '62. (MIRA 17:5)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002065320014-8"

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002065320014-8

SHCHERBAKOV, P.S., inzh.; ZOBACHEV, Yu.Ye., kand.tekhn.nauk; SUPRUN, L.A.,
kand.tekhn.nauk

Corrosion failure of shipbuilding materials in a stream of
sea water. Sudostroenie 28 no.6:55-59 Je '62. (MIRA 15:6)
(Corrosion and anticorrosives) (Sea water)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002065320014-8"

GLIEMAN, L.A.; KOSTROV, Ye.N.; SUPRUN, L.A.; YELIN, I.A.; SHCHERBAKOV, P.S.;
ZOBACHEV, Yu.Ye.; DOHRER, V.K.; STRUMPE, P.I., kand.tekhn.nauk. otd.
red.; ARAKELOV, V.K., nauchnyy red.; RAKA, N.G., red.; MOTLYAKOVA, O.I.,
tekhn.red.

[Organization and technology of ship repair; corrosion and
mechanical strength of metals] Organizatsiia i tekhnologiiia
sudoremonta; voprosy korrozionno-mekhanicheskoi prochnosti
metallov. Leningrad, Izd-vo Morskoi transport 1959. 76 p.
(Leningrad. tsentral'nyi nauchno-issledovatel'skii institut
morskogo flota. Trudy no.22) (MIRA 12:5)
(Metals--Testing) (Corrosion and anticorrosives)

ZobACHEV, Yu. Ye.

137-1957-12-25012

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 12, p 296 (USSR)

AUTHORS: Glikman, L. A., Zobachev, Yu. Ye.

TITLE: The Effect of Cathodic Polarization, Accomplished by Means of an External Current and an Mg Protector, on the Cavitation Stability of Carbon Steel in Tests Performed on a Magnetostriction Vibrator. (On the Problem of the Physical Nature of Cavitation Failure.) [Vliyaniye katodnoy poliarizatsii vneshnim tokom i magniyevym protektorom na kavitatsionnuyu stoykost' uglerodistoy stali pri ispytanii na magnitostriktionsnom vibratore. (K voprosu o fizicheskoy prirode kavitatsionnogo razrusheniya)]

PERIODICAL: Tr. Tsentr. n.-i. in-ta morsk. flota, 1956, Nr 5, pp 3-7

ABSTRACT: The testing of annealed carbon steels (0.12 - 0.56 percent C) was carried out in a magnetostriction vibrator, in which the specimen was caused to vibrate with an amplitude of $70\text{ }\mu$ at a frequency of 8000 cps, in sea water (Black Sea composition), and also for the sake of comparison in tap water. The loss in weight was taken as the criterion of cavitation stability. During cathodic polarization (P) the current density was held in the range between 0.6 and 4.2 amp/dm^2 . In addition, tests were also carried

Card 1/3

137-1957-12-25012

The Effect of Cathodic Polarization, Accomplished by Means of (cont.)

out under conditions of anodic P; graphite served as the material for the anode. It was established that, with increased density of the cathodic current, the rate of cathodic break-down (CB) is considerably lowered, but that at maximum current densities the weight loss in sea water is very significant and that it comprises approx. 70 percent of the weight lost in fresh water during CB. The large extent of CB, approaching the value for corrosion-resistant materials with approximately identical mechanical properties, points to the great importance of the mechanical aspect. Results obtained also reveal the relatively high corrosion losses during CB, which can also be explained by the mechanical aspect. The mechanism of this process consists in the appearance of cyclic plastic deformation (PD) in individual micro-volumes, which is a result of the mechanical action of recurrent, single impacts. The PD results in a considerable electrochemical non-homogeneity, the primary condition for which is the simultaneousness of the PD process and the action of the medium. The electrochemical non-uniformity is also intensified by microscopic regions of a PD which does not occur simultaneously throughout the area subjected to cavitation. It is shown that the employment of Mg protectors restores the fatigue strength of specimens sub-

Card 2/3

1. Steel-Cavitation-Test results 2. Polarization-Applications
3. Magnetostriction-Applications 4. Vibrating mechanisms-
Applications

137-1957-12-25012

The Effect of Cathodic Polarization, Accomplished by Means of (cont.)

subjected to simultaneous corrosive action of salt water to 90 percent of its value in air. The fact that Mg protectors have no effect upon CB is an indication that electrochemical non-homogeneity is considerably greater in CB than it is in a fatigue process. At greater current densities the anodic P process resulted in a significant acceleration of the CB owing to the anodic dissolution of specimens being tested.

L. G.

Card 3/3

ZOBACHIN, Yu.Ye.
GLIKMAN, L.A., doktor tekhnicheskikh nauk, professor; ZOBACHIN, Yu.Ye.

Effect of shot peening on cavitation resistance of metals during
tests on a magnetostriction vibrator. Metalloved. i obr. met.
no.5:38-41 My '57. (MIRA 10t6)

1. TSentral'nyy nauchno-issledovatel'skiy institut tekhnologii i
mashinostroyeniya.
(Shot peening) (Cavitation)

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002065320014-8

ZOBACHEV, Yu.Ye.

PRITULA, Vsevolod Aleksandrovich; ZOBACHEV, Yu.Ye., redaktor; KOZLOVA, I.P.,
redaktor izdatel'stva; LAVRENOVA, N.B., tekhnicheskiy redaktor

[Control of corrosion in tankers] Bor'ba s korroziей tankerov.
Moskva, Izd-vo "Morskoi transport," 1957. 149 p. (MLRA 10:8)
(Corrosion and anticorrosives) (Tank vessels)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002065320014-8"

PEREKALIN, Vsevolod Vasil'yevich; Prinimali uchastiye: SOPOVA, A.V.; LERNER, O.M.; ZONIS, E.S.; ZOBACHEVA, M.M.; KVITKO, S.N.; BASHOV, Yu.V.; KAP-LIN, S.V.; POLYANSKAYA, A.S.; PADVA, G.D.; ZONIS, S.A., red.; FOMINA, T.A., tekhn. red.

[Unsaturated nitro compounds] Nepredel'nye nitrosoedineniya. Lenin-grad, Gos. nauchno-tekhn. izd-vo khim. lit-ry, 1961. 335 p. (MIRA 14:7)

(Nitro compounds)

ZOBACHEVA, M. M., Cand Chem Sci -- "Synthesis of gamma- β -
amino acids and alpha-pyrrolidones. [Riga], 1961. (Riga
Polytech Inst) (KL, 8-61, 231)

- 78 -

5(3)

AUTHOR: Perekalin, V. V.,
Zobacheva, M. M.

SOV/79-29-9-20/76

TITLE: Synthesis of γ -Amino Acids and Pyrrolidones

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 9, pp 2905-2910 (USSR)

ABSTRACT: A survey of the synthesis of γ -amino acids and pyrrolidones described in publications reveals that their application is often restricted by the difficult preparation of the initial products. Known methods fail to produce more complicated γ -amino acids. In the investigation under review, the sodium derivative of dimethyl ester of malonic acid was caused to react with nitro-olefins of the aliphatic, aromatic, heterocyclic series, i.e. with β -isopropyl nitroethylene (Ref 10), p-methoxy- ω -nitrostyrene (Ref 11), p-oxy-m-methoxy- ω -nitrostyrene (Ref 12), β -furyl nitroethylene (Ref 13), β -thienyl nitroethylene (Ref 14); this condensation resulted in compounds (I) which, by reduction over a skeleton nickel catalyst, yielded pyrrolidones (II); the acid hydrolysis of carbomethoxy pyrrolidones led to substituted γ -amino butyric acids (III), and the alkaline hydrolysis to pyrrolidone carboxylic acids (IV). On heating, acids (III) and (IV) transformed into pyrrolidones (V); the hydrolysis of pyrrolidones again yielded γ -amino acids. A synthesis was also made of the acetyl compounds (VI) (Scheme).

Card 1/3

Synthesis of γ -Amino Acids and Pyrrolidones SOT/19-29-9-20/76

To prevent nitro-olefin from polymerising, nitro-olefin, likewise solved in methanol, was added to the solution of sodium methyl malonate in anhydrous methanol, and not the other way round. Condensation took place on cooling; a considerable resinification occurred above 20°. The nickel catalyst applied was first saturated with hydrogen; from the amount of absorbed hydrogen it was possible to deduct that only the nitro group had been reduced, and not the carboxyl groups. Acids (IV) were separated by diluted hydrochloric acid from the alkali lyes resulting after the hydrolysis of compounds (II). On heating to the melting point they were transformed into the corresponding pyrrolidones. Their hydrolysis with 10% caustic potash solution and subsequent neutralization with diluted hydrochloric acid, yielded the γ -amino acids as the end product. Five γ -amino acids (IIIa), (IIIb), (IIIv), (IIIg), (IIId), and, correspondingly, five pyrrolidones (Va), (Vb), (Vv), (Vg), (Vd) were synthesized. Melting point, yields and data supplied by the elementary analysis of the products obtained are shown by the table. There are 1 table and 14 references, 4 of which are Soviet.

Card 2/3

Synthesis of γ -Amino Acids and Pyrrolidones SOV/79-29-9-20/76

ASSOCIATION: Leningradskiy pedagogicheskiy institut imeni A. I. Gertsena
(Leningrad Pedagogical Institute imeni A. I. Gertsen)

SUBMITTED: July 11, 1958

Card 3/3

ZOBACHEVA, M.M.; PEREKALIN, V.V.

Reaction of nitro Olefins with malonic dimethyl ester. Nauch.dokl.
vys.shkoly; khim. i khim.tekh. no.4:740-742 '58. (MIRA 12:2)

1. Predstavlena kafedroy organicheskoy khimii Leningradskogo gosu-
darstvennogo pedagogicheskogo instituta imeni A.L. Gartaena.
(Olefina) (Malonic acid)

ZOBACOVÁ, Alena

G-3

CZECHOSLOVAKIA / Organic Chemistry. Natural Substances and
Their Synthetic Analogues.

Abstr Jour : RZhKhim., No 10, 1958, No 32581

Author : Rudolf Lukos, Alena Zobacova

Inst : Not given

Title : New Complete Synthesis of Phytol

Orig Pub : Chom. listy, 1957, 51, No 2, 330-335; Sb. cheskosl. khim.
rabit, 1957, 22, No 5, 1649-1654

Abstract : Hexahydrofarnesylacetone, from which phytol had been produced earlier (see Fischer F.G., Lowenborg, K., Liebigs Ann. Chom., 1929, 475, 183), was synthetized of levulinic acid (I) and isohoxyl bromido (II). 80% of ethyl ester, boiling point 59° under 18 mm, was prepared of isocaproic acid and alcohol by boiling 8 hours with CaCl_2 and HCl (acid); this ester yielded 69% of isohoxyl alcohol (III), boiling point 149 to 151° when reduced with Na in alcohol. II was obtained by the saturation of III with HBr at 100 to 120° (bath tem-

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CZECHOSLOVAKIA / Organic Chemistry. Natural Substances and
Their Synthetic Analogues.

G-3

Abstr. Jour. : RZhKhim., No 10, 1958, No 32581

porature), yield 76%, boiling point 142 to 144°. Ester was distilled off from Grignard's reagent of II and Mg (by boiling 30 minutes), the residue was dissolved in C₆H₆ and added drop by drop to the benzene solution of ethyl ester of I at 15 to 20°. After 30 min. of stirring and 12 hours of aging at 20° lactone of 2,6-dimethyl-6-oxyoctanocarboxylic-8 acid was produced, yield 47%, boiling point 108 to 109° under 1 mm; this yielded ethyl ester of 2,6-dimethyl-6-chlorooctane-carboxylic acid having been seasoned with HCl (gas) in alcohol, yield 96%. HCl was split off from the latter by heating (1 hour at 180°) without purifying and ethyl ester of 2,6-dimethylocteno-6-carboxylic-8 acid (IV) was formed, yield 92%, boiling point 90 to 92° under 1 mm. Ethyl ester of 2,6-dimethyloctanocarboxylic-8 acid was prepared by hydrogenating IV on Pd/Al₂O₃ in alcohol under normal pressure and temperature and reduced to 2,6-dimethylnonanol-9 with

Card 2/4

CZECHOSLOVAKIA / Organic Chemistry. Natural Substances and
Their Synthetic Analogs.

G-3

Abs Jour : RZhKhim., No 10, 1956, No 32581

LiAlH₄ in ether with further purification (12 hours at 20°), yield 86%, boiling point 119 to 120° under 13 mm. 2,6-di-methyl-9-bromononano was obtained from 2,6-dimethylnonanol-9 by the action of HBr (gas) at 120°, yield 61%, boiling point 103 to 104° under 11 mm. Grignard's reagent, received from it, together with ethyl ester of β -acetylbutyric acid produced lactone of 2,6,10-trimethyl-10-oxytridocanocarboxylic-13 acid under the above mentioned conditions, yield 75%, boiling point 143 to 148° under 0.08 to 0.09 mm. After having aged it 12 hours with HCl (gas) in alcohol, ethyl ester of 2,6,10-trimethyl-10-chlorotridocanocarboxilic-13 acid was obtained, yield 96%, which produced ethyl ester of 2,6,10-trimethyldodecano-10-carboxylic-13 acid having been heated 1.5 hour to 200 to 210°, yield 75%, boiling point 144 to

Card 3/4

32

CZECHOSLOVAKIA / Organic Chemistry. Natural Substances and
Their Synthetic Analogues.

G-3

Abs Jour : RZhKhim., No 10, 1958, No 32501

145° under 1.5 mm. Ethyl ester of 2,6,10-trimethyltridecane-carboxylic-13 acid was prepared by hydrogenation with Pd/Al₂O₃ in alcohol, without having been purified, this ester was hydrolyzed by boiling with KOH in aqueous alcohol and produced the free acid, boiling point 154 to 155° under 1.5 mm. The acid chloride of this acid, prepared by the action of SOCl₂, reacted 12 hours at 20° and 1.5 hour at 100° in benzene solution with ethyl ester of ethoxy-magnesiummalonic acid (cf. malonic ester, ethyl alcohol and magnesium in C₆H₆, 2 hours of boiling) and the product was heated 4.5 hours with propionic acid and H₂SO₄; it produced 2,6,10-trimethylpentadecanone-14, yield 75%, boiling point 132 to 134° under 1 mm, n²⁰D = 1.4453, n²⁵D = 1.4434; semi-carbazone, melting point 70° (from OH₃OH).

Card 4/4

ZOBACOVA, A.; LUKES, R.

A new total synthesis of phytol. p. 330. (Chemicke Listy, Vol. 51, no. 2, Feb. 1957.)

SO: Monthly List of East European Accession (EAL) Vol. 6, no. 7, July 1957. Undl.

LUKES, R. [deceased]; MOLL, M.; ZOBACOVA, A.; JARY, J.

On Lactones. Part 6 : Hydroxylation of 2-ethyl- β -oxo-2,5-dihydrofuran.
Coll Cz Chem 27, no.2:500-503 F '62.

1. Laboratorium fur heterocyclische Verbindungen, Tschechoslowakische
Akademie der Wissenschaften, Prag. 2. Jetzige Adresse : Zaklad
technologii chemicznych srodkow leczniczych, Warszawa (for Moll).

ZOBACOVA, A.; JARY, J.

Amino sugars. Pt. 3. Coll Cz Chem 29 no. 9:2043-2048 S '64.

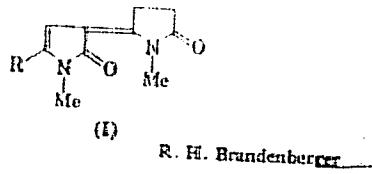
1. Laboratory for Research of Monosaccharides, Faculty of
Chemical Technology, Prague.

ZOBAKOVA, A.

Distr: 4E3b/4E3d 1
 Side products of the pyrrolone synthesis. Rudolf Lukes and Alena Zobaková (Akad. Věd., Prague). Chemie (Switz.) 1971, 13, 1159 (in German) — In the reaction of an aromatic Grignard reagent with N-methylsuccinimide to give hydroxypyrrrolidone, several side products whose structures have been detd before, were isolated along with a new compd. I ($R = \text{Ph}$ or $\text{C}_6\text{H}_5\text{Cl}$). Structure proof was obtained by oxidn, hydrolysis, and synthesis.

1. 3 α d(4.1)

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DR



R. H. Brandenberger

ZOBACOVA, A.

The action of Grignard reagents on the aromatic group
Preparation of some β -CO-oxides. B. L. Dickey and

to a Gilsgard reagent prep. from 81 g. Naphthalene,
14 g. Mg, and 950 ml. CH_2Cl_2 , heating the mixt. 90 min.
in an oven bath, keeping the mixt. at 20° decomposes with
dil. H₂O, wiping the precip. into the aq. layer with C_6H_6 .
Evap. the H₂O with the aq. layer, adding the
residue to the mixt. of C_6H_6 and CH_2Cl_2 and stirring
overnight. The precip. is collected and washed
with CH_2Cl_2 and dried. Yield 70 g. This product
is added to 100 ml. CH_2Cl_2 and 100 ml. benzene
containing 20 g. 1,10- N_2N -dimethyl- α -naphthylamine
(XII) and 10 ml. of 10% NaOH. 500 ml. C_6H_6
and dil. H₂O are added with stirring and cooling to
the mixture. Material was stirring and cooling to
room temp. for 10 min and then kept 4 days at room temp.
Decomposing with dil. H₂O, evap. the $\text{BzO-C}_6\text{H}_5$ layer,
steam-distilling the residual brown oil to remove naphthalene
and VII. Boiling the steam-distill. residue 15 hrs with 280
ml. 10% K_2CO_3 using the aq. layer, evap. the aq. layer with
 CH_2Cl_2 , decomposing the oil with 10% NaOH , and
collected the precipitate which were recrystallized from 40%
 CH_2Cl_2 and CH_3OH and then dried under yields 36 g. δ - $\text{C}_6\text{H}_5\text{COOC}_6\text{H}_4\text{COOC}_6\text{H}_5$ and 30 g. in 12% yield. Similarly,
using 10 g. product and 10 ml. of 10% K_2CO_3 the
product was 30 g.

ZOBACOVA, A.

PHASE I BOOK EXPLOITATION

CZECH/4539

Plešek, Jaromír, Engineer, Doctor, and Alena Zobáková, Engineer

Preparativní reakce v organické chemii, Díl. 5: Aldolisace a
příbuzné reakce (Reactions of Formation in Organic Chemistry,
Vol. 5: Aldolization and Related Reactions) Prague, Náklad.
Československé Akademie věd, 1960. 976 p. 2,000 copies printed.

Sponsoring Agency: Československá akademie věd. Sekce chemická.

Ed.: Miloš Hudlický, Engineer, Doctor; Scientific Ed.: Vladimír
Bažant, Engineer, Doctor; Ed. of Publishing House: Jarmila
Klejnová.

PURPOSE: This book is intended for organic chemists and industrial
chemists interested in reactions for the preparation of aldehyde
resins. It may also be used by chemistry teachers and chemistry
students at the university level.

COVERAGE: The book discusses an important branch of aldol syntheses,
i.e., reactions catalyzed by all kinds of bases. Those reactions

Card 1/20

Reactions of Formation (Cont.)

CZECH/4539

in which the required carbon ion is formed in ways other than by dissociation of the compound by alpha hydrogen transposition have not been included. Aldol syntheses and reactions in which a compound of an extremely weak mineral acid produces, by the effect of a very strong base, an isolable organometallic compound, an intermediate product of the reaction, are treated as borderline cases. Of the acid-catalyzed aldol syntheses, attention is given only to those which have comparable base-catalyzed reactions. These are, chiefly, acid-catalyzed aldol condensations of aldehydes and ketones, the Mannich and Meerwein acylation reactions of ketones by acid anhydrides and boron fluoride. Organometallic syntheses and reactions of the Friedel-Crafts type are treated in other volumes of the series. The character of the compound having the transposable (α) hydrogen atom, which is the generator of the required carbon ion, is the key to the arrangement of the material in the individual sections. Materials are arranged so that compounds whose active C-H bond is activated from only one side precede compounds activated from both sides, i.e., compounds with an active methylene group. No personalities are mentioned. There are 2664 references representative of the most important periodical literature in the field published from 1950 to 1957.

Card 2/20

DAMRIN, V.I., inzh.; ZOBAK, B.I.

Position transducer by hydraulic jet. Stal' 20 no.2:189-191
F '60. (MIEA 19:5)

1. Yuvmetallurgavtomatika.
(Rolling mills) (Hydraulic control)

ZOBAK, I.D.

Collapsotherapy of disseminated forms of tuberculosis. Prob. tu-
berk., Moskva No.1:27-33 Jan-Feb 51. (CLML 20:6)

1. Honored Physician RSFSR, Docent.

Zubakov, V.A.

20-6-30/48

AUTHOR:

Zubakov, V.A.

TITLE:

Deposits of West Siberia and on the Distribution Boundaries of the Sanchugov Transgression along the Yenisey River (O ledni-kovo-morskikh otlozheniyakh Zapadnoy Sibiri i granitsakh ras-prostraneniya Sanchugovskoy transgressii po Yeniseyu)

PERIODICAL:

Doklady AN SSSR, 1957, Vol. 115, Nr 6, pp. 1161-1164 (USSR)

ABSTRACT:

Since 1946-49 a horizon of moraines became known here which was later called "Yeniseian" or "Tazovian". The glaciation of the same name had, according to various authors, a superficial character. It followed immediately after the maximum glaciation. The Yenisei-(Taz-) glaciation left the so-called Taz-Pur-Nadym-terminal moraine belt. This glaciation preceded the Sanchugov transgression and the formation of the sands of the Messov horizon. On the Yenisey river, between the mouth of the Podkamen-naya Tuguska and the village Karaul, the author discovered gradual transition of the moraine deposits to typically marine sediments of the Sanchugov suite. The author considers these deposits as primarily intact shells of Portlandia arctica (300 km distant from the sea) which in their interior contain the rocks.

Card 1/3

20-6-30/48

Deposits of West Siberia and on the Distribution Boundaries of the Sanchugov
Transgression along the Yenisey River

The fossils are deposited in a complex with only Siberian erratic blocks (and with no Taymyr-Siberian ones). A marine fauna was also discovered in the Turukhan basin (66 degrees north latitude). The mass of clays containing erratic blocks on the Yenisei may, according to the pollen-spore-analysis, be subdivided into 2 horizons: the lower - the Oplyvin-lake-estuarial layers. The pollen-spore-complex is interglacial here. The upper horizon has a moraine character with an increase in the marble-content and with a tundra-like pollen-spore-complex. This mass belongs to the Sanchugov suite. Under it lie sands of the Khakhaliev- (Messov-) -horizon. In the light of these data one cannot agree to the classification of the Yenisei horizon with the continental moraine formations. It also hardly belongs to the interglacial era. It has, on the contrary, to be classified with the glacial-marine correlative forms of glaciation and with the sediments of the "second covers"-glaciation (i.e. the Yeniseian). They had no true cover character, but the ice masses slid into the sea and on the water formed a husk cover up to 50 m thick. Under it the glacial-marine deposits formed which are visually not to be distinguished from a typical moraine. In the distribution region of the icebergs the moraine material sank only spo-

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20-6-30/48

Deposits of West Siberia and on the Distribution Boundaries of the Sanchugov
Transgression along the Yenisey River

radically to the ground, so that the sediments do not have a moraine character here, although they are contemporaneous with the glaciation. The sediments of the Yenisey-glaciation must be separated as an independent stratigraphic horizon. The boundaries of the "passive", i.e. of the Yenisey-glaciation reflected in marine and estuarial deposits, must to a great extent agree with the boundary of the Sanchugov-transgression and have an "ingressive" character. They extend to the south in the Yenisey valley and other river valleys to 66 degrees north latitude. The so-called edge-terminal moraine formations of the Taz-Pur-Nadym belt are, according to all probability, not connected with the Yenisey-glaciation, but come from the maximum glaciation. There are 2 figures and 7 Slavic references.

ASSOCIATION: All-Union Scientific Geological Research Institute
(Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut)
PRESENTED: D.V. Nalivkin, Academician, March 29, 1957
SUBMITTED: March 27, 1957
AVAILABLE: Library of Congress

Card 3/3

LYUBIMOV, A.P.; ZOBENIS, V.Ya.; RAKHOVSKIY, V.I.

Mass spectrometric determination of the thermodynamic properties
of binary metallic systems [with summary in English]. Zhur. fiz.
khim. 32 no.8:1804-1808 Ag '58. (MIRA 11:10)

1.Institut stali imeni I.V. Stalina, Moskva.
(Systems (Chemistry))

AUTHORS:

Lyubimov, A. P., Zobens, V. Ya.,
Rakhovskiy, V. I.

DOI/76-32-8-12/37

TITLE:

A Mass-Spectrometric Determination of the Thermodynamic
Properties of Binary Metallic Systems (Opriseleniye
termodynamicheskikh kharakteristik metallicheskikh dvoynykh
sistem pri pomoshchi mass-spektrometra)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1958, Vol. 32, Nr 8,
pp. 1804-1808 (USSR)

ABSTRACT:

A method for the determination of the partial pressures of vapors based on an evaporation and a subsequent analysis of the gaseous phase is employed. An apparatus of the type MS-1 served for the mass-spectrometric measurements. It had to be improved in some respects, as e.g. by a focusing of the ion beam, the avoiding of a contact between the material to be investigated and the heating element, and others. A diagram of the apparatus as well as a description and the technique employed are given. The systems Fe - Ni and Fe - Co were investigated at 1463°, 1583° and 1705°K, with the isotopes ^{56}Fe , ^{59}Co and ^{58}Ni being used for the measurements.

Card 1/2

A Mass-Spectrometric Determination of the
Thermodynamic Properties of Binary Metallic Systems

SOV/76-32-8-12/37

The determination of the partial vapor pressures was carried out by means of the Gibbs-Duhem (Gibbs-Dyugam) equation; the values of the thermodynamic activities, of the activity coefficients as well as of the partial molar free energies are given in a table. It was found that the two systems agree well with the Raoult's (Rault) theorem and thus are close to the ideal case. At a concentration of 80 % nickel there is, however, a deviation from the ideal case, which fact is explained by the presence of "residues" of a superstructure Ni₃Fe.

There are 2 figures, 6 tables, and 4 references, 2 of which are Soviet.

ASSOCIATION: Institut stali im. I.V. Stalina Moskva (Institute of Steel imeni I.V. Stalin, Moscow)

SUBMITTED: March 12, 1957

Card 2/2

BARSUKOV, A.A., inzh., laureat Leninskoy premii; BORISOV, Yu.S., inzh.; VAKS, D.I., inzh.; VLADZIYEVSKIY, A.P., doktor tekhn. nauk; urof., laureat Stalinskoy premii; GINZBURG, Z.M., inzh.; GLAZYNER, F.Ye., inzh.; ZOBIN, V.S., inzh.; KAZAK, M.I., dots.; KAMINSKAYA, V.V., kand. tekhn. nauk; KEDRINSKIY, V.N., inzh., laureat Leninskoy premii; KUCHER, A.M., kand. tekhn. nauk; KUCHNIR, I.M., kand. tekhn. nauk; LEVINA, Z.M., inzh.; LUK'YANOV, T.P., inzh.; MOROZOVA, Ye.M., inzh.; MOSKIN, P.A., kand. tekhn. nauk, dots.; NIENHAG, N.Ya., kand. tekhn. nauk; OSTRouMOV, G.A., inzh.; PLOTKIN, I.B., inzh.; SPIVAK, E.D., kand. tekhn. nauk; SUM-SHIK, M.M., inzh.; SHASHKIN, P.I., inzh.; SHIFRIN, S.M., inzh.; YAKOBSON, M.O., doktor tekhn. nauk, prof.; GLIMMER, B.H., inzh., red.; SONGLOVA, T.P., tekhn. red.

[Handbook for mechanics of machinery plants in two volumes]
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[Operating and repairing ventilation systems in machinery plants] Ekspluatatsiya i remont ventilatsionnykh ustrojstv mashinostroitel'nykh zavodov. Izd.2., perer. i dop. Moskva, Gos.uchebno-tekn.izd-vo mashinostroit.lit-ry, 1961. 317 p.

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KRABIN, A.I., prof. [deceased]; ZOBIN, V.S., inzh., retsenent;
YAMINSKIY, V.V., kand. tekhn. nauk, red.

[Compressed air; production, use, means of economy] Sza-
tyi vozdukh; vyrabotka, potrableniye, puti ekonomii. Mo-
skva, Izd-vo "Mashinostroenie," 1964. 342 p.

(MIRA 17:5)

KARABIN, A.I., prof. [deceased]; ZOBIN, V.S., inzh., retsenzent; YAMINSKIY, V.V., kand. tekhn. nauk, red.

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ZOBIN, V. S., ENG.

Hot Water Heating

Diagonal pump for a central heating system. (Proposition of P. A. Dabir, G. T. Tatarchuk, L. P. Ananikyan). Prom. energ. 9, no. 9, 1952.

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December 1952. UNCLASSIFIED.

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002065320014-8

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Contact-type gas operated economizers for efficient heating of water,
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(MTBA 18:10)

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ZOBIN, V.S., inzh.; RYABTSEV, N.I., inzh.; SKOL'NIK, G.M., inzh.

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V. L. Eynis).
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A new method for the determination of diffusion of tannins into the skins. R. Zaitina and A. N. Mikhalev. *Otdelenie Tekhniki Rezolyutcheskogo Protsessirovaniya* No. 3, 28.—An attempt was made to simplify the testing procedure for tanning skins. The hide powder was tanned in a battery of 6 vats (3 days in each vat), with a 4% Na₂SO₃ sp. gr. in the last vat. Control expts. were carried out with willow and pine excts. by the old method. The new procedure yielded satisfactory results except for the compression modulus, which disagreed with that obtained in the usual tannings.

A. A. Shchitnikov

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

Ch

Influence of the preparation methods and of sulfitation on the leaching and physicochemical properties of pine extracts. L. A. Zelina, N. S. Kravtsova and A. N. Mikhailov. *Oblastnoye Tekhnicheskoye Knizhnoye Izdatelstvo* 1932, No. 3, 38-9.—The investigation was carried out for the purpose of detg. the best conditions for the prepn. of sulfited pine ext., as well as for defining the influence of temp. on the extn. of pine bark and the influence of concn. on the quality of the ext. To det. the best sulfitation conditions expts. with a liquid pine ext. obtained by the extn. of pine bark at 80-85° and treated with sulfite, bisulfite, Na_2CO_3 , and their mixts. were undertaken. The best sulfitation results were obtained with $\frac{1}{4}$ Na_2SO_3 + $\frac{1}{4}$ NaHSO_3 , the atkt. of the reagent being 5% of the dry substance, the pine ext. being first treated with sulfite for 4 hrs. at 90-95°, then with bisulfite also for 4 hrs. at 75-85°. The influence of the temp. during the extn. was investigated by extg. the pine bark at (1) a temp. not exceeding 50°, (2) at 90-100° in all diffusers and (3) at 90° in the first and 120° in the last diffuser and with 5° intervals in the intermediate diffusers.

The concn. was carried out in excess up to 20-22%. The investigation expected sulfited as well as unsulfited extn. Results: (1) An increase of the extn. temp. up to 120° does not affect the (filtration of the ext); (2) Sulfitation of the ext. improves its diffusion properties in all cases; (3) Its binding properties do not deteriorate on concn.; the ext. to the consistency of dough. A complete diffusor was not attained in all cases. The binding properties of the ext. decrease on sulfitation (Creutz coeff.), while they improve on heating. The laundries are more stable against falling out on sulfitation. The surface tension of all the ext. was the same, amounting to 0.73-0.74 toward water. An increase of the extn. temp. causes a higher viscosity at high concns. and the total acidity as detd. by the Steven and Aaker dialysis decreases on sulfitation at elevated temp. A. A. B.

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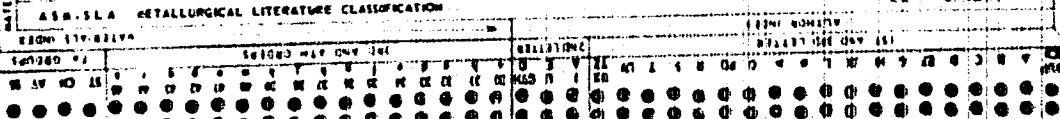
A50-SLA METALLURGICAL LITERATURE CLASSIFICATION

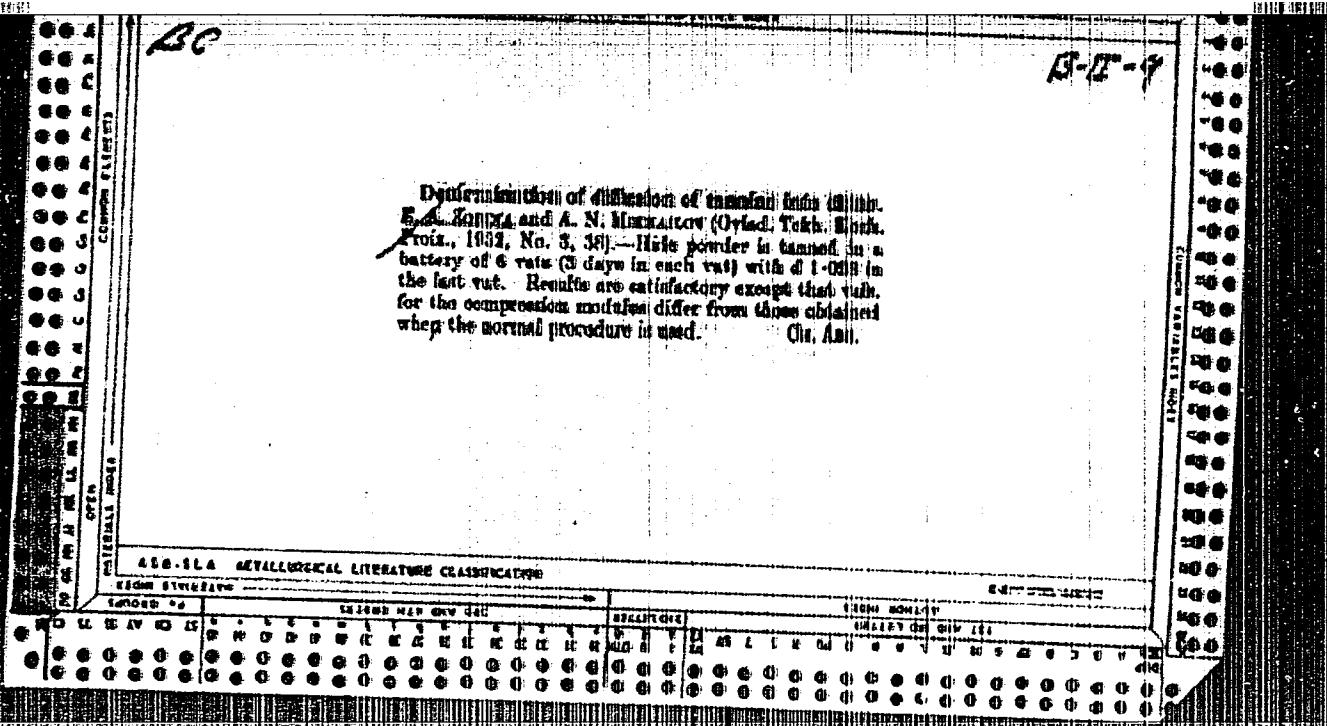
VOLUME EDITION

Influence of the preparation methods and of sulfuration on the tanning and physicochemical properties of pine extracts. E. A. Zolotnina, N. S. Kracikova and A. N. Mikhailov. *Oblastnoye Tekhnicheskoye Knizhnoye Izdatelstvo* 1932, No. 3, 38-46.—The investigation was carried out for the purpose of detg. the best conditions for the prepn. of sulfited pine ext., as well as for defining the influence of temp. on the extn. of pine bark and the influence of concn. on the quality of the ext. To det. the best sulfitation conditions expts. with a liquid pine ext obtained by the extn. of pine bark at 80-90° and treated with sulfite, bisulfite, Na_2CO_3 and their mixts. were undertaken. The best sulfitation results were obtained with $1/4$ $\text{NaSO}_3 + 1/4 \text{ NaHSO}_3$, the amt. of the reagent being 5% of the dry substance, the pine ext. being first treated with sulfite for 4 hrs. at 80-95°, then with bisulfite also for 4 hrs. at 75-85°. The influence of the temp. during the extn. was investigated by extg. the pine bark at (1) a temp. not exceeding 50°, (2) at 80-85° in all diffusers and (3) at 90° in the first and 120° in the last diffusers and with 5° intervals in the intermediate diffusers.

The extent was carried out in blend up to 20-22% BE. The investigation covered sulfidized as well as unsulfidized exts. Results: (1) An increase of the extn. temp., up to 120° does not affect the diffusion of the ext. (2) Sulfidation of the ext. improves its diffusion properties in all cases. (3) Its binding properties do not deteriorate on cooking the ext. to the consistency of dough. A complete diffusion was not attained in all cases. The binding properties of the ext. decrease on sulfidation (Crede coil 1), while they improve on heating. The amides are more stable against salting out on sulfidation. The surface tension of all the exts. was the same, amounting to 0.63-0.70 toward water. An increase of the extn. temp. causes a higher viscosity at high concns. and the total acidity as detd. by the Steven and Anker method decreases on sulfidation at elevated temp. A. A. B.

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Influence of methods of preparation and of
oxidation on the tanned and physico-chemical
properties of pine extracts. I. A. Zosina, N. G.
Sukhareva, and A. N. Mikhalev (Ural. Tekhn. Khim.
Inst., 1959, No. 4, 54-61). Optimum sulfation is
attained with Na_2SO_3 for 4 hr. at 40-50° followed by
 NaHSO_3 for 6 hr. at 75-80°. A rise in extraction
temp. to $> 130^\circ$ does not affect the diffusion of the
extract or sulphation impurities diffusion. The tanning
parameters are not affected by either, to the consistency
of dough.

AUG-61A METALLURGICAL LITERATURE CLASSIFICATION

CONT'D. 222-2

ITEM NUMBER	SUBJECT	CLASSIFICATION	EXTRACT NUMBER	PUBLICATION DATE		PUBLICATION NUMBER
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VOLKOV, A.A.; VASKIN, I.S.; ZOBINA, M.M.; MURATKHODZHAYEV, N.K.

Use of colloidal radioactive isotopes for radiotherapy of
craniopharyngioma. Med. rad. 8 no.7:23-29 Jl '63.

1. Iz Leningradskogo nauchno-issledovatel'skogo neurokhirur-
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M.V., kand. med. nauk; BUTIKOVA, N.I., doktor med. nauk;
ZOBINA, M.M., kand. med. nauk; IVASHKO, L.M.; KAZANTSEVA,
N.D., kand. med. nauk; ZLICHINOV, D.M., professor;
KUZ'MIN, B.P., kand. med. nauk; OBODAN, N.M., kand. biol.
nauk; KHILKOVA, T.A., kand. med. nauk; EPSHTEYN, Grigoriy
Yakovlevich, prof.

[Traumatology and restorative surgery in children; selected
chapters] Travmatologija i vosstanovitel'naja kirurgija
detskogo vozrasta; izbrannye glavy. Leningrad, Meditsina,
1964. 334 p.
(MIRA 17:6)

1. Chlen-korrespondent AMN SSSR (for Bairov).

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(ARTERIES—DISEASES) (NERVOUS SYSTEM, SYMPATHETIC—SURGERY) (MIRA 13:11)

ZOBINA, M.M.

Lumbar sympathectomy in atherosclerosis obliterans. Vest, khir. no.8:45-48 '61.

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(ARTERIOSCLEROSIS) (NERVOUS SYSTEM, SYMPATHETIC-SURGERY)

FEDOROV, Yevgeniy Aleksandrovich; ZOREV, B.S., inzh. red.; MOROZOVA, P.B.,
izdat.red.; ZUDAKIN, I.M., tekhn.red.

[Motion of a plate of infinite span in the vicinity of free surface
of ideal weightless fluid] Dvizhenie plastinki beskonечnogo razmaka
vblizi svobodnoi poverkhnosti ideal'noi nevesomoi chidkosti. Moskva,
Moskva, Gos. izd-vo otor. promyshl., 1958, 41 p. (Moscow. Tsentral'nyi
aero-gidrodinamicheskii inst. Trudy, no. 711) (MIEA 11:7)
(Airfoils)

YEVDOKIMOV, N., tokar'-karusel'shchik; ZOBKOV, N.

Production norms bureau staffed with volunteers in a workshop.
Sots.trud 8 no.4:21-23 Ap '63. (MIRA 1614)

1. Predsedatel' Obshchestvennogo normirovочnogo byuro
mekhanicheskogo tsekha Moskovskogo zavoda "Krasnaya Presnya"
(for Yevdokimov).
(Moscow--Machinery industry--Production standards)

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002065320014-8

ZOBKOV, V.V.; GORSHKOVA, A.I.

Ultrasonic study of the soft tissues and the liver. Trudy
VNITMIO no.3:74-78 '63 (MIRA 18:2)

APPROVED FOR RELEASE: 03/15/2001

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(Capital) (Industrial management)